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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,819	08/04/2003	Masaaki Matsunaga	01165.0903	9219	
75	590 04/20/2004		EXAM	EXAMINER	
Finnegan, Henderson, Farabow,			WANG, G	WANG, GEORGE Y	
Garrett & Dunner, L.L.P.			ART UNIT	PAPER NUMBER	
1300 I Street, N.W. Washington, DC 20005-3315			2871		
<del>-</del>			DATE MAILED: 04/20/200	DATE MAILED: 04/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)			
Office Action Summary		10/632,819	MATSUNAGA ET AL.			
		Examin r	Art Unit			
		George Y. Wang	2871			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the c rresp ndence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)🖂	4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
· <u> </u>	Claim(s) is/are allowed.					
	Claim(s) is/are rejected.					
	Claim(s) is/are objected to.					
8)[4]	Claim(s) <u>1-16</u> are subject to restriction and/or e	lection requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examiner	•				
10)[	The drawing(s) filed on is/are: a)☐ acce					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
	The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.						
<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						

## **DETAILED ACTION**

## Election/Restrictions

- 1. The application contains a plurality of disclosed patentably distinct species comprising
- (1) the specifics of an exposure device having a liquid crystal shutter for forming a latent image on a photosensitive medium comprising a first embodiment corresponding to Figures 1a-1b;
- (2) the specifics of the liquid crystal shutter device with no spacers in the form of a partitioning wall comprising a second embodiment corresponding to Figures 2a-5d;
- (3) the specifics of the liquid crystal shutter device with two spacers in the form of a partitioning wall between each of the shutter rows comprising a third embodiment corresponding to Figures 6-8;
- (4) the specifics of the liquid crystal shutter device with four spacers in the form of a partitioning wall between and outside of each of the shutter comprising a fourth embodiment corresponding to Figure 9;
- (5) the specifics of the liquid crystal shutter device with four spacers in the form of a partitioning wall between and outside of each of the shutter and each of the spacers having intermediate notches comprising a fifth embodiment corresponding to Figures 10-12;

(6) the specifics of the liquid crystal shutter device with drive circuits arranged beside each of the shutter rows comprising a sixth embodiment corresponding to Figures 13-14b;

- (7) the specifics of the liquid crystal shutter device with drive circuits arranged in opposed position with respect to the shutter rows comprising a seventh embodiment corresponding to Figures 15-16b;
- (8) the specifics of the method of making a liquid crystal shutter with drive circuits arranged beside each of the shutter rows comprising an eighth embodiment corresponding to Figure 17.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 571-272-2304. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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April 19, 2004

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